

WHAT IS CLAIMED IS:

1. A mold-release coating system for a mold surface, comprising:

5 a barrier coating of a substantially liquid wax material, wherein said wax material is deposited onto the mold surface, wherein said wax material includes about 7 to about 10 weight percent solids, wherein said wax material is permitted to substantially dry after
10 deposition onto the mold surface; and

a release powder deposited onto said barrier coating after said wax material has been permitted to substantially dry after deposition onto the mold surface.

15 2. A mold-release coating system as set forth in claim 1 wherein said barrier coating comprises at least two layers of said wax material, wherein each of said layers is permitted to substantially dry after deposition onto the mold surface.

20 3. A mold-release coating system as set forth in claim 1 wherein said release powder includes a plurality of droplets of a silicone material and a substantially thermoplastic powder material encapsulating
25 said droplets.

4. A mold-release coating system as set forth in claim 3 wherein said silicone material is first

atomized into said droplets that are caused to contact a source of the substantially thermoplastic material to be encapsulated thereby.

5 5. A mold-release coating system as set forth in claim 1 wherein said release powder is deposited onto said barrier coating in an amount in the range of about 0.3 to 1.0 grams.

10 6. A mold-release coating system as set forth in claim 1 wherein said release powder is deposited onto said barrier coating by electrostatic spraying.

15 7. A mold-release coating system for a mold surface, comprising:

 a barrier coating of a substantially liquid wax material, wherein said wax material is deposited onto the mold surface, wherein said wax material includes about 7 to about 10 weight percent solids, wherein said wax
20 material is permitted to substantially dry after deposition onto the mold surface; and

 a release powder deposited onto said barrier coating after said wax material has been permitted to substantially dry after deposition onto the mold surface,
25 wherein said release powder includes a plurality of droplets of a silicone material and a substantially thermoplastic powder material encapsulating said droplets, wherein said silicone material is first atomized into said

droplets that are caused to contact a source of said thermoplastic material to be encapsulated thereby.

8. A mold-release coating system as set forth
5 in claim 7 wherein said barrier coating comprises at least two layers of the wax material, wherein each of said layers is permitted to substantially dry after deposition onto the mold surface.

10 9. A mold-release coating system as set forth in claim 7 wherein said release powder is deposited onto said barrier coating in an amount in the range of about 0.3 to 1.0 grams.

15 10. A mold-release coating system as set forth in claim 7 wherein said release powder is deposited onto said barrier coating by electrostatic spraying.

11. A method for forming a mold-release coating system on a mold surface, comprising:

20 providing a barrier coating of a substantially liquid wax material, wherein the wax material includes about 7 to about 10 weight percent solids;

applying the wax material onto the mold surface;

25 permitting wax material to substantially dry after application onto the mold surface;

providing a release powder; and

applying the release powder onto the barrier coating after the wax material has been permitted to

substantially dry after application onto the mold surface.

12. A method as set forth in claim 11 wherein the barrier coating comprises at least two layers of the substantially liquid wax material, wherein each layer is permitted to substantially dry after deposition onto the mold surface.

13. A method as set forth in claim 11 wherein the release powder includes a plurality of droplets of a silicone material encapsulated by a substantially thermoplastic powder material.

14. A method as set forth in claim 13 including the steps of atomizing the silicone material into a plurality of droplets and encapsulating the droplets with a substantially thermoplastic material.

15. A method as set forth in claim 11 wherein said step of applying comprises applying the release powder to the barrier coating in an amount in the range of about 0.3 to 1.0 grams.

16. A method as set forth in claim 11 wherein said step of applying comprises electrostatic spraying the release powder onto the barrier coating.